

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

JEROEN A.L.J. RAAYMAKERS

NL 010148

Serial No.

Group Art Unit

Filed: CONCURRENTLY

Ex.

Title: TILT CONTROL DEVICE AND METHOD

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to calculation of the filing fee and examination, please amend the above-identified application as follows:

IN THE CLAIMS

Please amend the claims as follows:

3. (amended) A device according to claim 1,
characterized in that
said focus controlling output is a focus voltage or a controller
integrator output.
4. (amended) A device according to claim 1,
characterized by

a sledge (4) for moving an optical pickup unit, a tilt platform (5) for changing said inclination of said recording surface, a tilt adjusting means (9) for adjusting said tilt platform (5), and a tilt control means (10) for controlling said sledge (4) and said tilt adjusting means (9).

7. (amended) An optical disc player comprising a tilt control device as claimed in claim 1.

10. (amended) A method according to claim 10, characterized in that said calibrating step comprises measuring said focus controlling output at a rotation point between a tilt frame defined by a tilt platform (5) and said optical disc (1), adjusting said tilt platform (5) until the same focus controlling output is obtained at a first predetermined distance outward from said rotation point, and using a focus controlling output obtained at a second predetermined distance inward from said first predetermined distance as said output offset of said tilt detecting means (3) for said optical disc (1).

11. (amended) A method according to claim 10, characterized in that

said second predetermined distance corresponds to the half of said first predetermined distance.

14. (amended) A device according to claim 14, characterized by a sledge (4) for moving an optical pickup unit, a tilt platform (5) for changing said inclination of said recording surface, a tilt adjusting means (9) for adjusting said tilt platform (5), wherein said tilt control means (10) is arranged to control said sledge (4) and said tilt adjusting means (9) so as to perform said measurements.

16. (amended) An optical disc player comprising a tilt control device as claimed in claim 14.

20. (amended) A method according to claim 21, characterized in that said adjusting step comprises measuring said focus controlling output at said at least two different radial positions at said two different radial tilt positions, and adjusting said tilt platform (5) based on the mean radial tilt obtained for said two predetermined tilt frame positions in between said at least two different radial positions.

REMARKS

The foregoing amendments to the claims were made solely to avoid filing the claims in the multiple dependent form so as to avoid the additional filing fee.

The claims were not amended in order to address issues of patentability and Applicants respectfully reserve all rights they may have under the Doctrine of Equivalents. Applicants furthermore reserve their right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Respectfully submitted,

By 

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APPENDIX

3. (amended) A device according to claim ~~1 or 2~~,
characterized in that
said focus controlling output is a focus voltage or a controller
integrator output.

4. (amended) A device according to ~~any one of claims 1 to 4~~ claim
1,

characterized by
a sledge (4) for moving an optical pickup unit, a tilt platform (5)
for changing said inclination of said recording surface, a tilt
adjusting means (9) for adjusting said tilt platform (5), and a
tilt control means (10) for controlling said sledge (4) and said
tilt adjusting means (9).

7. (amended) An optical disc player comprising a tilt control
device as claimed in ~~any one of claims 1 to 7~~ claim 1.

10. (amended) A method according to claim ~~10 or 11~~,
characterized in that
said calibrating step comprises measuring said focus controlling
output at a rotation point between a tilt frame defined by a tilt

platform (5) and said optical disc (1), adjusting said tilt platform (5) until the same focus controlling output is obtained at a first predetermined distance outward from said rotation point, and using a focus controlling output obtained at a second predetermined distance inward from said first predetermined distance as said output offset of said tilt detecting means (3) for said optical disc (1).

11. (amended) A method according to ~~any one of claims 10 to 12~~ claim 10,

characterized in that

said second predetermined distance corresponds to the half of said first predetermined distance.

14. (amended) A device according to ~~any one of claims 14 to 16~~ claim 14,

characterized by

a sledge (4) for moving an optical pickup unit, a tilt platform (5) for changing said inclination of said recording surface, a tilt adjusting means (9) for adjusting said tilt platform (5), wherein said tilt control means (10) is arranged to control said sledge (4) and said tilt adjusting means (9) so as to perform said measurements.

16. (amended) An optical disc player comprising a tilt control device as claimed in ~~any one of claims 14 to 18~~claim 14.

20. (amended) A method according to claim 21 ~~or 22~~, characterized in that said adjusting step comprises measuring said focus controlling output at said at least two different radial positions at said two different radial tilt positions, and adjusting said tilt platform (5) based on the mean radial tilt obtained for said two predetermined tilt frame positions in between said at least two different radial positions.